

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101S30, 844
Source: PCT
Date Processed by STIC: 4-19-05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

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Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/530)844

ATTN: NEW RULES CASES: PLEASE DISREGARD ENCL#II "ALPHA" HEADERS WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleic The numbers at the end of each line "wrapped" down to the next line. This may occur if your file was received in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 Missigned Amino Numbering The numbering under each 5th amino acid is missigned. Do not use tab codes between numbers; use space characters, instead.

4 Non-ASCII The submitted file was not saved in ASCII(DOS file), as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 Variable Length Sequence(s) _____ contains n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>..<22> section that some may be missing.

6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>..<22> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>..<22> section to the subsequent amino acid sequence. This applies to the mandatory <220>..<22> sections for Artificial or Unknown sequences.

7 Skipped Sequences (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading)
 (ii) SEQUENCE DESCRIPTION SEQ ID NO X (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

8 Skipped Sequences (NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
 <210> sequence id number
 <400> sequence id number
 000

9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the sequence listing.
 Per 1.821 of Sequence Rules, use of <220>..<221> is MANDATORY if n's or Xaa's are present in <220> to <22> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <211> Response Per 1.821 of Sequence Rules, the only valid <211> responses are Unknown, Artificial Sequence or scientific name (Genus/species). <220>..<221> section is required when <211> response is Unknown.

11 Use of <220> Use of <220> to <22> is MANDATORY if <211> "Organism" response is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <22> section (See "Federal Register," 00/01/1998, Vol 63, No 104, pp 29631-32) (Sec 1.821 of Sequence Rules)

12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC - Biotechnology Systems Branch - 09/09/2003

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PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/530,844

DATE: 04/19/2005
 TIME: 08:46:17

Input Set : A:\PTO.SR.txt
 Output Set: N:\CRF4\04192005\J530844.raw

5 <110> APPLICANT: Consortium for elektrochemische Industrie GmbH
 9 <120> TITLE OF INVENTION: Feedback resistente Homoserin-Transsuccinylasen mit
 11 modifiziertem C-Terminus
 15 <130> FILE REFERENCE: Col0221
 C---> 18 <140> CURRENT APPLICATION NUMBER: US/10/530,844
 C---> 20 <141> CURRENT FILING DATE: 2005-04-08
 24 <160> NUMBER OF SEQ ID NOS: 12
 28 <170> SOFTWARE: PatentIn Ver. 2.0
 32 <210> SEQ ID NO: 1
 34 <211> LENGTH: 930
 36 <212> TYPE: DNA
 38 <213> ORGANISM: Escherichia coli
 42 <220> FEATURE:
 44 <221> NAME/KEY: CDS
 46 <222> LOCATION: (1)..(930)
 50 <300> PUBLICATION INFORMATION:
 52 <301> AUTHORS: Blattner, F. R.
 54 <302> TITLE: The complete genome sequence of Escherichia coli K-12.
 56 <303> JOURNAL: Science
 58 <304> VOLUME: 277
 60 <305> ISSUE: 533
 62 <306> PAGES: 1453-1474
 64 <307> DATE: 1997
 66 <308> DATABASE ACCESSION NO: Blattner, F.R.
 W---> 70 <300> PUBLICATION INFORMATION 1

pls do not use
 foreign language in
 U.S. Applications.
 Does Not Comply
 Corrected Diskette Needed
 (pg. 1-5)

Mandatory, if 308
 is shown, than
 309
 must be
 inserted.

72	atg ccg att cgt gtg ccg gac gag cta ccc gcc gtc aat ttc ttg cgt	48
74	Met Pro Ile Arg Val Pro Asp Glu Leu Pro Ala Val Asn Phe Leu Arg	
76	1 5 10 15	
80	gaa gaa aac gtc ttt gtg atg aca act tct cgt gcg tct ggt cag gaa	96
82	Glu Glu Asn Val Phe Val Met Thr Ser Arg Ala Ser Gly Gln Glu	
84	20 25 30	
88	att cgt cca ctt aag gtt ctg atc ctt aac ctg atg ccg aag aag att	144
90	Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met Pro Lys Lys Ile	
92	35 40 45	
96	gaa act gaa aat cag ttt ctg cgc ctg ctt tca aac tca cct ttg cag	192
98	Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn Ser Pro Leu Gln	
100	50 55 60	
104	gtc gat att cag ctg ttg cgc atc gat tcc cgt gaa tcg cgc aac acg	240
106	Val Asp Ile Gln Leu Leu Arg Ile Asp Ser Arg Glu Ser Arg Asn Thr	
108	65 70 75 80	
112	ccc gca gag cat ctg aac aac ttc tac tgt aac ttt gaa gat att cag	288
114	Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe Glu Asp Ile Gln	
116	85 90 95	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/530,844

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Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\04192005\J530844.raw

120 gat cag aac ttt gac ggt ttg att gta act ggt gcg ccg ctg ggc ctg	336
122 Asp Gln Asn Phe Asp Gly Leu Ile Val Thr Gly Ala Pro Leu Gly Leu	
124 100 105 110	
128 gtg gag ttt aat gat gtc gct tac tgg ccg cag atc aaa cag gtg ctg	384
130 Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile Lys Gln Val Leu	
132 115 120 125	
136 gag tgg tcg aaa gat cac gtc acc tcg acg ctg ttt gtc tgc tgg gcg	432
138 Glu Trp Ser Lys Asp His Val Thr Ser Thr Leu Phe Val Cys Trp Ala	
140 130 135 140	
144 gta cag gcc gcg ctc aat atc ctc tac ggc att cct aag caa act cgc	480
146 Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro Lys Gln Thr Arg	
148 145 150 155 160	
152 acc gaa aaa ctc tct ggc gtt tac gag cat cat att ctc cat cct cat	528
154 Thr Glu Lys Leu Ser Gly Val Tyr Glu His His Ile Leu His Pro His	
156 165 170 175	
160 gcg ctt ctg acg cgt ggc ttt gat gat tca ttc ctg gca ccg cat tcg	576
162 Ala Leu Leu Thr Arg Gly Phe Asp Asp Ser Phe Leu Ala Pro His Ser	
164 180 185 190	
168 cgc tat gct gac ttt ccg gca gcg ttg att cgt gat tac acc gat ctg	624
170 Arg Tyr Ala Asp Phe Pro Ala Ala Leu Ile Arg Asp Tyr Thr Asp Leu	
172 195 200 205	
176 gaa att ctg gca gag acg gaa gaa ggg gat gca tat ctg ttt gcc agt	672
178 Glu Ile Leu Ala Glu Thr Glu Glu Gly Asp Ala Tyr Leu Phe Ala Ser	
180 210 215 220	
184 aaa gat aag cgc att gcc ttt gtg acg ggc cat ccc gaa tat gat gcg	720
186 Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro Glu Tyr Asp Ala	
188 225 230 235 240	
192 caa acg ctg gcg cag gaa ttt ttc cgc gat gtg gaa gcc gga cta gac	768
194 Gln Thr Leu Ala Gln Glu Phe Phe Arg Asp Val Glu Ala Gly Leu Asp	
196 245 250 255	
200 ccg gat gta ccg tat aac tat ttc ccg cac aat gat ccg caa aat aca	816
202 Pro Asp Val Pro Tyr Asn Tyr Phe Pro His Asn Asp Pro Gln Asn Thr	
204 260 265 270	
208 ccg cga gcg agc tgg cgt agt cac ggt aat tta ctg ttt acc aac tgg	864
210 Pro Arg Ala Ser Trp Arg Ser His Gly Asn Leu Leu Phe Thr Asn Trp	
212 275 280 285	
216 ctc aac tat tac gtc tac cag atc acg cca tac gat cta ccg cac atg	912
218 Leu Asn Tyr Tyr Val Tyr Gln Ile Thr Pro Tyr Asp Leu Arg His Met	
220 290 295 300	
224 aat cca acg ctg gat taa	930
226 Asn Pro Thr Leu Asp	
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234 <210> SEQ ID NO: 2	
236 <211> LENGTH: 309	
238 <212> TYPE: PRT	
240 <213> ORGANISM: Escherichia coli	
244 <400> SEQUENCE: 2	
246 Met Pro Ile Arg Val Pro Asp Glu Leu Pro Ala Val Asn Phe Leu Arg	
248 1 5 10 15	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/530,844

DATE: 04/19/2005

TIME: 08:46:17

Input Set : A:\PTO.SR.txt
 Output Set: N:\CRF4\04192005\J530844.raw

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252 Glu Glu Asn Val Phe Val Met Thr Thr Ser Arg Ala Ser Gly Gln Glu
254      20          25          30
258 Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met Pro Lys Lys Ile
260      35          40          45
264 Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn Ser Pro Leu Gln
266      50          55          60
270 Val Asp Ile Gln Leu Leu Arg Ile Asp Ser Arg Glu Ser Arg Asn Thr
272      65          70          75          80
276 Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe Glu Asp Ile Gln
278      85          90          95
282 Asp Gln Asn Phe Asp Gly Leu Ile Val Thr Gly Ala Pro Leu Gly Leu
284      100         105         110
288 Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile Lys Gln Val Leu
290      115         120         125
294 Glu Trp Ser Lys Asp His Val Thr Ser Thr Leu Phe Val Cys Trp Ala
296      130         135         140
300 Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro Lys Gln Thr Arg
302 145      150         155         160
306 Thr Glu Lys Leu Ser Gly Val Tyr Glu His His Ile Leu His Pro His
308      165         170         175
312 Ala Leu Leu Thr Arg Gly Phe Asp Asp Ser Phe Leu Ala Pro His Ser
314      180         185         190
318 Arg Tyr Ala Asp Phe Pro Ala Ala Leu Ile Arg Asp Tyr Thr Asp Leu
320      195         200         205
324 Glu Ile Leu Ala Glu Thr Glu Glu Gly Asp Ala Tyr Leu Phe Ala Ser
326      210         215         220
330 Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro Glu Tyr Asp Ala
332 225      230         235         240
336 Gln Thr Leu Ala Gln Glu Phe Phe Arg Asp Val Glu Ala Gly Leu Asp
338      245         250         255
342 Pro Asp Val Pro Tyr Asn Tyr Phe Pro His Asn Asp Pro Gln Asn Thr
344      260         265         270
348 Pro Arg Ala Ser Trp Arg Ser His Gly Asn Leu Leu Phe Thr Asn Trp
350      275         280         285
354 Leu Asn Tyr Tyr Val Tyr Gln Ile Thr Pro Tyr Asp Leu Arg His Met
356      290         295         300
360 Asn Pro Thr Leu Asp
362 305
368 <210> SEQ ID NO: 3
370 <211> LENGTH: 34
372 <212> TYPE: DNA
374 <213> ORGANISM: Artificial Sequence
378 <220> FEATURE:
380 <223> OTHER INFORMATION: Description of Artificial Sequence:  

382 Oligonucleotide metAdel1 What is this?
386 <400> SEQUENCE: 3
388 ctatggta gtgaataata gtactgagct ctgg
394 <210> SEQ ID NO: 4
396 <211> LENGTH: 34

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34

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/530,844

DATE: 04/19/2005
TIME: 08:46:17

Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\04192005\J530844.raw

```

398 <212> TYPE: DNA
400 <213> ORGANISM: Artificial Sequence
404 <220> FEATURE:
406 <223> OTHER INFORMATION: Description of Artificial Sequence:
408     Oligonucleotide metAdel2
412 <400> SEQUENCE: 4
414 ctgggtggata tatgagatct ggttagacgta atag
420 <210> SEQ ID NO: 5
422 <211> LENGTH: 33
424 <212> TYPE: DNA
426 <213> ORGANISM: Artificial Sequence
430 <220> FEATURE:
432 <223> OTHER INFORMATION: Description of Artificial Sequence:
434     Oligonucleotide metAext1
438 <400> SEQUENCE: 5
440 tgggtggatat atgagatctg gtagacgtaa tag
446 <210> SEQ ID NO: 6
448 <211> LENGTH: 34
450 <212> TYPE: DNA
452 <213> ORGANISM: Artificial Sequence
456 <220> FEATURE:
458 <223> OTHER INFORMATION: Description of Artificial Sequence:
460     Oligonucleotide metAext2
464 <400> SEQUENCE: 6
466 gtattttgtta gtgaataata gtactgagct ctgg
472 <210> SEQ ID NO: 7
474 <211> LENGTH: 33
476 <212> TYPE: DNA
478 <213> ORGANISM: Artificial Sequence
482 <220> FEATURE:
484 <223> OTHER INFORMATION: Description of Artificial Sequence
486     Sequence
490 <400> SEQUENCE: 7
492 tcatatatatcc accagctatt tgtagtgaa taa
498 <210> SEQ ID NO: 8
500 <211> LENGTH: 10
502 <212> TYPE: PRT
504 <213> ORGANISM: Artificial Sequence
508 <220> FEATURE:
510 <223> OTHER INFORMATION: Description of Artificial Sequence
512     Protein Sequence
516 <400> SEQUENCE: 8
518 Ser Tyr Ile His Gln Leu Phe Val Ser Glu
520     1           5           10
526 <210> SEQ ID NO: 9
528 <211> LENGTH: 102
530 <212> TYPE: DNA
532 <213> ORGANISM: Artificial Sequence
536 <220> FEATURE:

```

34

33

33

Same errors

What is the source of genetic material?

Partial Gene *INVALID response*

What is the source of genetic material?

Partial *INVALID response*

See item # 11 on error summary sheet.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/530,844

DATE: 04/19/2005
TIME: 08:46:17

Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\04192005\J530844.raw

✓ SAME
errors

538 <223> OTHER INFORMATION: Description of Artificial Sequence: Partial Gene
540 Sequence
544 <400> SEQUENCE: 9
546 tcataatatcc accactattt gtttgtaat aatagtactg agctctggat gcatacgcgt 60
550 ttaattaagc ggccgcactg cgatgagttt cagggcgaaa cg 102
556 <210> SEQ ID NO: 10
558 <211> LENGTH: 34
560 <212> TYPE: PRT
562 <213> ORGANISM: Artificial Sequence
566 <220> FEATURE:
568 <223> OTHER INFORMATION: Description of Artificial Sequence: Partial Protein Sequence
570
574 <400> SEQUENCE: 10
576 Ser Tyr Ile His His Tyr Leu Leu Val Asn Asn Ser Thr Glu Leu Trp
578 1 5 10 15
582 Met His Thr Arg Leu Ile Lys Arg Pro His Cys Asp Glu Trp Gln Gly
584 20 25 30
588 Gly Ala
596 <210> SEQ ID NO: 11
598 <211> LENGTH: 102
600 <212> TYPE: DNA
602 <213> ORGANISM: Artificial Sequence
606 <220> FEATURE:
608 <223> OTHER INFORMATION: Description of Artificial Sequence: Partial Gene
610 Sequence
614 <400> SEQUENCE: 11
616 tcataatatcc accagtattt gtttgtaat aatagtactg agctctggat gcatacgcgt 60
620 ttaattaagc ggccgcactg cgatgagttt cagggcgaaa cg 102
626 <210> SEQ ID NO: 12
628 <211> LENGTH: 34
630 <212> TYPE: PRT
632 <213> ORGANISM: Artificial Sequence
636 <220> FEATURE:
638 <223> OTHER INFORMATION: Description of Artificial Sequence: Partial Protein Sequence
640
644 <400> SEQUENCE: 12
646 Ser Tyr Ile His Gln Tyr Leu Leu Val Asn Asn Ser Thr Glu Leu Trp
648 1 5 10 15
652 Met His Thr Arg Leu Ile Lys Arg Pro His Cys Asp Glu Trp Gln Gly
654 20 25 30
658 Gly Ala

↑ See item #11
on error
summary
sheet.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/530,844

DATE: 04/19/2005
TIME: 08:46:18

Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\04192005\J530844.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,3,5,7,9,11,13,15,16,18,20,22,24,26,28,30,32,34,36,38,40
Seq#:1; Line(s) 42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80
Seq#:1; Line(s) 82,84,86,88,90,92,94,96,98,100,102,104,106,108,110,112,114
Seq#:1; Line(s) 116,118,120,122,124,126,128,130,132,134,136,138,140,142,144
Seq#:1; Line(s) 146,148,150,152,154,156,158,160,162,164,166,168,170,172,174
Seq#:1; Line(s) 176,178,180,182,184,186,188,190,192,194,196,198,200,202,204
Seq#:1; Line(s) 206,208,210,212,214,216,218,220,222,224,226,228,230,232,234
Seq#:2; Line(s) 236,238,240,242,244,246,248,250,252,254,256,258,260,262,264
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Seq#:12; Line(s) 628,630,632,634,636,638,640,642,644,646,648,650,652,654
Seq#:12; Line(s) 656,658,660,662,664,666

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/530,844

DATE: 04/19/2005

TIME: 08:46:18

Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\04192005\J530844.raw

L:18 M:270 C: Current Application Number differs, Replaced Application Number
L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:70 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:1
L:228 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1